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In re Application of

Nicolson et al

Application Number

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15

(12) **United States Patent**  
Nicolson et al.

(10) Patent No.: **US 6,951,894 B1**  
(45) Date of Patent: **\*Oct. 4, 2005**

(54) **EXTENDED WEAR OPHTHALMIC LENS**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/640,526**

(22) Filed: **Aug. 17, 2000**

**Related U.S. Application Data**

(63) Continuation of application No. 09/262,542, filed on Mar. 4, 1999, now abandoned, which is a continuation of application No. 09/108,714, filed on Jul. 1, 1998, now Pat. No. 5,965,631, which is a division of application No. 08/682,452, filed on Jul. 17, 1996, now Pat. No. 5,849,811, which is a division of application No. 08/569,816, filed on Dec. 8, 1995, now Pat. No. 5,760,100, which is a continuation-in-part of application No. 08/301,166, filed on Sep. 6, 1994, now abandoned.

(30) **Foreign Application Priority Data**

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(51) Int. Cl.<sup>7</sup> ..... **C08K 3/00**

(52) U.S. Cl. .... **523/107; 523/106; 523/108**

(58) Field of Search ..... **523/106, 107**

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(57) **ABSTRACT**

An ophthalmic lens suited for extended-wear periods of at least one day on the eye without a clinically significant amount of corneal swelling and without substantial wearer discomfort. The lens has a balance of oxygen permeability and ion or water permeability, with the ion or water permeability being sufficient to provide good on-eye movement, such that a good tear exchange occurs between the lens and the eye. A preferred lens is a copolymerization product of a oxyperm macromer and an ionoperm monomer. The invention encompasses extended wear contact lenses, which include a core having oxygen transmission and ion transmission pathways extending from the inner surface to the outer surface.

**84 Claims, No Drawings**